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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/817,627	04/01/2004	Guy F. Hudson	500155.06 2837	
7590 06/29/2006		EXAMINER		
Mark W. Roberts, Ph.D. DORSEY & WHITNEY LLP Suite 3400 1420 Fifth Avenue			MENON, KRISHNAN S	
			ART UNIT	PAPER NUMBER
			1723	
Seattle, WA	98101		DATE MAILED: 06/29/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Assista Communication	10/817,627	HUDSON, GUY F.				
Office Action Summary	Examiner	Art Unit				
	Krishnan S. Menon	1723				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>01 A</u>	oril 2004.					
	<u> </u>					
3) Since this application is in condition for allowar closed in accordance with the practice under E	•					
Disposition of Claims						
4)⊠ Claim(s) <u>65-69 and 75-100</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)☐ Claim(s) is/are allowed. 6)☑ Claim(s) <u>65-69 and 75-100</u> is/are rejected.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the		• •				
Replacement drawing sheet(s) including the correct						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign a)☐ All b)☐ Some * c)☐ None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	-	ved in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list		and .				
Oce the attached detailed Office action for a list	or the certified copies flot receiv	cu.				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summar Paper No(s)/Mail [
2) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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DETAILED ACTION

Claims 65-69 and 75-100 are pending as preliminarily amended 4/1/04

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 65-69 and 75-100 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 70-100 of copending Application No. 10/817,495. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the '495 application recites the limitations recited in the instant claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claims 65-67, 75,76,85-90 and 98-100 are rejected under 35 U.S.C. 102(b) as being anticipated by Hayashi et al (US 5,647,989).

Hayashi-989 teaches a system for manufacturing a planarizing slurry (figure 1 and 2) having first line (the recycle of spent slurry) with a first filter to remove particle size greater than 0.5 μm (column 4 lines 49-67), and then mixing a slurry from a second line (fresh slurry – column 6 lines 23-41; 26-figure 2), mixer (30), volume controls as claimed (column 6 lines 23-41; 26a,17a, and 25 – figure 2), and dispenser (17;17a). The particles size recited as greater than 0.3, 0.8 and 1.0 microns is taught in column 3 lines 29-43.

2. <u>Claims 65-67, 75,76,85-90 and 98-100 are rejected under 35 U.S.C. 102(e) as being</u> anticipated by Hayashi et al (US 6,077,437).

Hayashi-437 teaches a prior art system (which is Hayashi-989 above) for manufacturing a planarizing slurry (figure 6 and 7) having first line (the recycle of spent

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slurry) with a first filter to remove particle size greater than 0.5 µm (column 2 lines 35-45), and then mixing a slurry from a second line (fresh slurry – 126-figure 7), mixer (130), volume controls as claimed (126a,117a, and 125), and dispenser (117;117a). The particles sizes recited as greater than 0.3, 0.8 and 1.0 microns is taught in column 2 lines 35-45.

Hayashi-437 also teaches that the use of 0.5 micron membrane for the fine filtration is unnecessary, that larger pore size can be used, and shows a comparative study of the pore size in table 1, which includes pore size ranging from 0.5 micron to 150 microns.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 68, 69, 77-84 and 91-97 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi'437 as applied to claims 65 and 90 above, and further in view of Chiu et al (US 6,106,714).

Instant claims differ from the teaching of Hayashi-437 in the second line having a second filter that removes particles of size greater than 0.05 or 0.15 µm. Applicant provides the second filter to manufacture the slurry having a bimodal distribution of particles. Bimodal distribution of particles is taught by Hayashi-437 – see figure 3a, 3b

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and 4, and column 8 lines 11-18, column 12 lines 41-46 and column 13 lines 1-9. Use of a filter in a slurry feed line to remove impurities is "conventional" (or known in the art), irrespective of the stream being fresh or recycle – see the Chiu reference, column 1 lines 37-51. It would be obvious to one of ordinary skill in the art at the time of invention to provide a filter to remove undesirable material from the second feed stream of the slurry as well, as is conventional in the art, in the teaching of Hayashi. The actual sizing of the filter is optimizable, depending on the impurities to be removed from the stream, as taught by Hayashi-437 (see column 11 lines 45 – column 12 line 23)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on 571-272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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